

Title (en)
SELECTIVE-CATION-REMOVAL PURIFICATION OF ALUMINUM SOURCE

Title (de)
REINIGUNG EINER ALUMINIUMQUELLE MIT SELEKTIVER KATIONENENTFERNUNG

Title (fr)
PURIFICATION DE SOURCE D'ALUMINIUM PAR ÉLIMINATION SÉLECTIVE DE CATIONS

Publication
EP 2478122 A2 20120725 (EN)

Application
EP 10817937 A 20100917

Priority
• US 24391609 P 20090918
• US 2010049374 W 20100917

Abstract (en)
[origin: US2011070133A1] A method of purifying an aluminum source includes dissolving an aluminum ion source to provide a first solution including aluminum ions having a pH of not greater than 4.0, adjusting the pH of the first solution with a tetraalkylammonium hydroxide solution to a pH in range of 4.1 to 8.4 thereby forming an aluminum hydroxide precipitate, separating the aluminum hydroxide precipitate from the first solution, washing the separated aluminum hydroxide precipitate with an aqueous solution having a pH in a range of 4.1 to 8.4, dissolving the washed aluminum hydroxide precipitate using an acid to provide a second solution having a pH of not greater than 4.0, and forming an aluminum salt from the second solution.

IPC 8 full level
C22B 9/02 (2006.01); **C22B 21/06** (2006.01)

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C01F 7/46 (2013.01 - EP US); **C01F 7/66** (2013.01 - EP US); **C22B 9/02** (2013.01 - KR); **C22B 21/06** (2013.01 - KR)

Citation (search report)
See references of WO 2011035187A2

Designated contracting state (EPC)
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US 2011070133 A1 20110324; **US 8287826 B2 20121016**; CA 2773571 A1 20110324; CN 102639728 A 20120815; CN 102639728 B 20131204; EP 2478122 A2 20120725; JP 2013505192 A 20130214; KR 20120098625 A 20120905; WO 2011035187 A2 20110324; WO 2011035187 A3 20110929

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US 88529010 A 20100917; CA 2773571 A 20100917; CN 201080041588 A 20100917; EP 10817937 A 20100917; JP 2012529947 A 20100917; KR 20127009797 A 20100917; US 2010049374 W 20100917